



## 2004 AMOS TECHNICAL CONFERENCE

September 13-17, 2004 • Wailea, Maui, Hawaii

**J**oin us in beautiful Hawaii for the annual AMOS Technical Conference to be held at the Wailea Marriott, on Maui from September 13 to 17, 2004.

The conference series aims to provide optical, space surveillance, and computing professionals a cutting-edge forum to exchange and publish their work and ideas. It is intended for scientists, engineers, and technical managers from academia, industry, government, and military programs.

This will be an unclassified conference consisting of featured speakers, a technical program, and poster sessions. On Friday, September 17, attendance will be limited to personnel from U.S. Government agencies and their contractors.

### KEYNOTE SPEAKER

- Brigadier General Richard V. Geraci, *Director, National Security Space Architect*

### SESSION CHAIRS

- Rita Beebe, *New Mexico State University*; John Degnan, *Sigma Space Corporation*; Bobby Hunt, *SAIC*; Nick Johnson, *NASA/Johnson Space Center*; T.S. Kelso, *Analytical Graphics, Inc.*; Bernie Klem, *The Aerospace Corporation*; Heiner Klinkrad, *European Space Agency*; Keith Knox, *The Boeing Company*; Alice Ling, *Air Force Research Laboratory*; Sergio Restaino, *Air Force Research Laboratory*

### TECHNICAL PAPERS — A SELECTION OF CONFIRMED SPEAKERS

- Extremely High Fidelity Imaging with AEOS and the Lyot Project Coronagraph, *Ben Oppenheimer, The American Museum of Natural History*
- Pan-STARRS - A Large Synoptic Survey Telescope System, *Nick Kaiser, University of Hawaii Institute for Astronomy*
- Closed Loop Adaptive Optical System Based on Combined Genetic and Hill-Climbing Algorithms, *Julia Sheldakova, Russian Academy of Sciences*
- How Well Can One Measure Strehl?, *Julian Christou, Center for Adaptive Optics*
- Three-Dimensional Simulations of the Chicxulub Impact Event, *Galen Gisler, Los Alamos National Laboratory*
- Predicting the Performance of Image Super-Resolution Algorithms, *Bobby Hunt, Maui High Performance Computing Center*
- Re-Entry Prediction and Risk Assessment Procedures at ESA, *Heiner Klinkrad, European Space Agency*
- The Near Earth Orbit Surveillance Satellite (NEOSSat), *Brad Wallace, Defense R&D Canada*
- Upgrading ESA-PROOF, the Program for Radar and Optical Observation Forecasting, *Michael Oswald, Institute of Aerospace Systems, Germany*
- Radiometric and Focal Plane Requirements and Parameter Sensitivities for a Space-Based, Space Surveillance, Electro-Optical Sensor, *David*
- Maui MALT Studies of Atmospheric Density, Temperature, Wind Shears and Instabilities in the Mesosphere using Lidar, Airglow Imagery, and Meteor Radar, *Gary Swenson, University of Illinois*
- Laser and Transponder Ranging Within the Inner Solar System: A Unified Prediction System, *Randall L. Ricklefs, University of Texas at Austin*
- SLR2000C: An Autonomous Satellite Laser Ranging and Space-to-Ground Optical Communications Facility, *John Degnan, Sigma Space Corporation*
- Comparison of Optical and Radar Tracking for Catalog Maintenance, *Terry Alfriend, Texas A & M University*

### OPTIONAL TOURS (space is limited)

- Thursday, September 9 – Mauna Kea Observatories, Big Island
- Friday, September 10 – Pacific Missile Range Facility, Kauai
- Sunday, September 12 – Maui High Performance Computing Center, and Maui Space Surveillance System, Maui

### REGISTRATION

The AMOS conference will be held at the Wailea Marriott, in Maui, Hawaii. The group hotel rate is \$159 per night, plus 11.416% tax. Reserve your room early as there are a limited number of rooms available at this special rate. For hotel reservations call 1.800.367.2960 and reference the AMOS Technical Conference.

**Register by July 15, to receive early registration discount.**

**Register via the form on back or visit the AMOS website at <http://www.maui.afmc.af.mil>**

CHANGE SERVICE REQUESTED

590 Lipoa Parkway, Suite 103 • Kihei, Maui, Hawaii 96753

## 2004 AMOS TECHNICAL CONFERENCE

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### Registration Information

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Organization \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone \_\_\_\_\_ Fax \_\_\_\_\_  
Email \_\_\_\_\_

### Conference Fees

Fee includes conference materials, admittance to all sessions Tuesday through Thursday (including coffee breaks, breakfasts and lunches), poster session, evening tutorials, the welcome reception and luau.

	pre-July 15	post-July 15	on site
Author/Govt.	\$595	\$645	\$750
Regular	\$645	\$695	\$750

☐ Friday, Sept. 17 \$50 (Friday session not included in conference fee.)

### Optional Tours

Attendees are responsible for their own hotel reservations and air transportation to the Big Island and/or Kauai. Tour costs are for ground transportation and refreshments. Tours are limited to conference participants.

- ☐ Mauna Kea Observatories, The Big Island, *Thursday, Sept. 9 (cost \$80)*
- ☐ Pacific Missile Range Facility, Kauai, *Friday, Sept. 10 (cost \$50)*
- ☐ Maui High Performance Computing Center and Maui Space Surveillance System, Maui, *Sunday, Sept. 12 (cost \$35)*

Non U.S. Citizens please provide passport # \_\_\_\_\_  
date of birth \_\_\_\_\_  
country of issuance \_\_\_\_\_

### Guests

Guests not attending the conference are invited to join participants at the two evening functions.

☐ Monday, Sept. 13 Reception \$60 ☐ Thursday, Sept. 16 Luau \$55

Guest Name \_\_\_\_\_

### Method of Payment

NOTE: ALL PAYMENTS MUST BE MADE IN U.S. CURRENCY

☐ Check/Money Order payable to: Maui Economic Development Board

☐ Purchase Order # \_\_\_\_\_

Charge my: ☐ Mastercard ☐ Visa ☐ AMX

Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_

Send Completed Form to:

2004 AMOS Technical Conference

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<http://www.maui.afmc.af.mil>

To register online visit the AMOS website at

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